

METHOD FOR PURIFYING MATTER CONTAMINATED WITH  
HALOGENATED ORGANIC COMPOUNDS

ABSTRACT

A method for purifying matter contaminated with a  
5 halogenated organic compound is disclosed. The method  
includes the step of adding a reducing agent and a  
nutritional source for a heterotrophic anaerobic  
microorganism to the contaminated matter. The reducing  
agent is reduced iron, cast iron, iron-silicon alloy and so  
10 on, or a water soluble compound. A combination of chemical  
reactions with microorganisms allows to decompose the  
halogenated organic compound. The nutritional source  
including an organic carbon and 20 to 50 percent by weight  
of an oxidized form of nitrogen is added, thereby preventing  
15 by products of the decomposition such as generation of  
noxious gases and decoloration of soil. A method includes  
the steps of mixing a reducing agent and a nutritional  
liquid with the contaminated matter, wherein the mixing step  
including a step of adjusting the contaminated matter at pH  
20 ranging from 4.5 to 9.0; and keeping the mixture in a  
condition that air hardly penetrates through a matrix,  
thereby allowing to uniformly mix a large amount of the  
contaminated matter.